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(21) International Application Number: PCT/GB00/01248 (22) International Filing Date: 31 March 2000 (31.03.00) (30) Priority Data: 9907277.9 31 March 1999 (31.03.99) GB (71) Applicant (for all designated States except US): CAMBRIDGE 3D DISPLAY LTD. [GB/GB]; 26 Faroe Road, London W14 0EP (GB). (72) Inventors; and (75) Inventors/Applicants (for US only): TRAVIS, Adrian, Robert, Leigh [GB/GB]; Wrangaton House, Wrangaton, South De- von TQ10 9HH (GB). MARSTON, Nathan, Stuart [GB/GB]; Christ's College, Cambridge CB2 3BU (GB). (74) Agent: GIBBS, Christopher, Stephen; Haseltine Lake & Co., Imperial House, 15-19 Kingsway, London, WC2B 6UD (GB).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>

(54) Title: WIDE-FIELD-OF-VIEW PROJECTION DISPLAY**(57) Abstract**

A wide-field-of-view projection display comprises a circularly symmetric lens (1) and an array of light emitters (2), positioned along the focal circumference of the circularly symmetric lens so that light from each of the light emitters is substantially collimated by the lens in a different direction. A ray-diverting means, such as a slab waveguide (10) or a reflector, ejects the collimated light out of the plane of the lens to the viewer. The planar circularly symmetric lens has no aberration, allowing adjacent views to be seamlessly joined because they can all be diffused by the same angular amount.

